

# *The · OTIS · Undercounter DUMBWAITER*

*FOR  
STORES*

*Also  
HOTELS  
HOSPITALS  
RESTAURANTS  
ETC.*



FASTER HANDLING OF MERCHANDISE  
MORE SPACE ON THE SELLING FLOOR  
INCREASED PROFITS

AND A NEATER, CLEANER STORE AT ALL TIMES

WITH THE OTIS UNDERCOUNTER DUMBWAITER you can keep small stocks of constantly moving goods where people can see them, and use the basement for storage.

Stop and think what that means. All unpacking and uncrating done in the basement, with the selling floor free from confusion and litter . . . All surplus stock in the basement, permitting attractive counter displays that need not be overcrowded because prompt replacement facilities are always at hand . . . Fruit and vegetable cooling and conditioning equipment in the basement, where the produce may be kept until the last minute in the morning, from which replacements may be instantly sent to the selling floor as needed, and to which perishable goods may be promptly returned when the store is closed . . . Work of replacing stock after closing

time completed with less help and in shorter time, due to rapid transportation of merchandise to the selling floor.

These and many special advantages in individual cases have made the Otis Undercounter Dumbwaiter a valuable aid to store operation.

FOR OTHER USES, TOO

The Otis Undercounter Dumbwaiter is not confined to use in retail stores. It has a wide use, for example, for the transportation of food from a kitchen or pantry to the serving floor; and installations of this nature have recently been made in hotels, restaurants, hospitals, homes and prison buildings.

This type of dumbwaiter equipment is, in fact, very suitable and economical for practically every two-stop, moderate rise, dumbwaiter installation.



# OTIS UNDERCOUNTER DUMBWAITER



ON THE SELLING FLOOR every square foot of space is valuable. Here the Otis Undercounter Dumbwaiter eliminates unnecessary storage of merchandise. This efficient unit, occupying no selling space itself, has made possible the addition of entire new departments in stores that were once pressed for space.



IN THE BASEMENT utility counts. Here waiting stocks of merchandise are stored, ready for instant delivery to the selling floor. Note that packaged goods are sent up uncrated, just as they will be placed upon the shelves. Note also the use, in this case, of the inexpensive sheet-metal hoistway enclosure.





# COMPLETE AND READY TO INSTALL

THE Otis Undercounter Dumbwaiter is economical to install and economical to operate. It is automatic, dependable, fool-proof, capable of carrying heavy bags and crates. It may be located under any standard height store counter and occupies no space on the selling floor. In addition, it embodies the following features of construction and operation:

AUTOMATIC ELECTRIC CONTROL permits the car to be operated by the touch of a button.

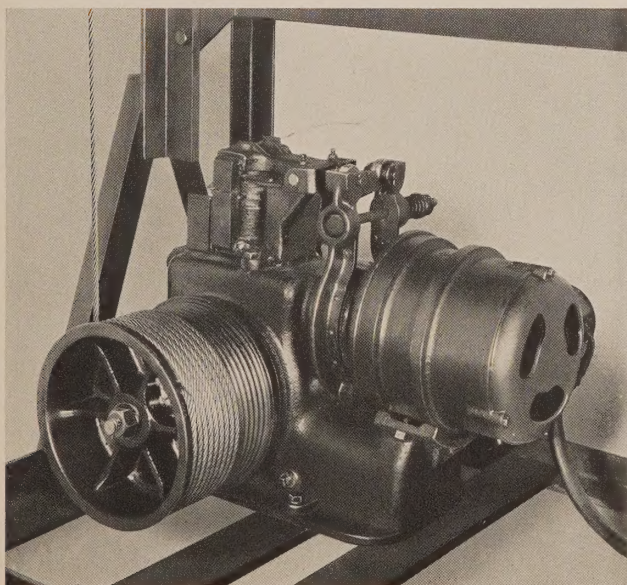
WELDED STEEL CAR takes loads up to 300 pounds from storage to counter in a few seconds.

STEEL HOISTWAY FRAME allows quick, economical installation and easy removal to another location.

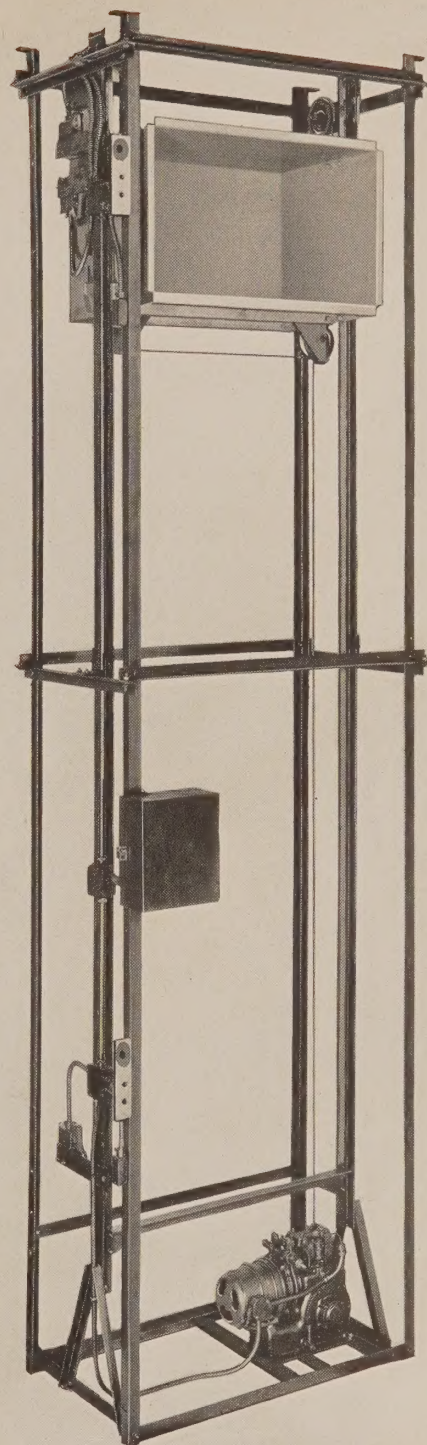
HEAVY STEEL ELEVATOR GUIDE RAILS and strong steel hoisting cable mean long service.

## AN AUTOMATIC DUMBWAITER TO REPLACE HAND POWER EQUIPMENT

The speed, economy and ease of installation of this new automatic electric dumbwaiter makes it particularly valuable in replacing obsolete hand-power equipment. It usually can be installed in the existing hoistway, and will immediately effect savings in time and service.



STURDY, COMPACT HOISTING MACHINE, with  $1\frac{1}{2}$  H.P. motor, and ball and roller bearings throughout.

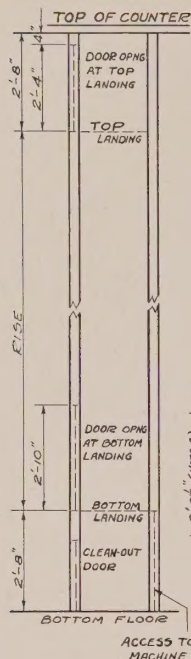


THE Otis Undercounter Dumbwaiter, designed and built as a unit by the Otis Elevator Company. One manufacturer, one guarantee, one responsibility.



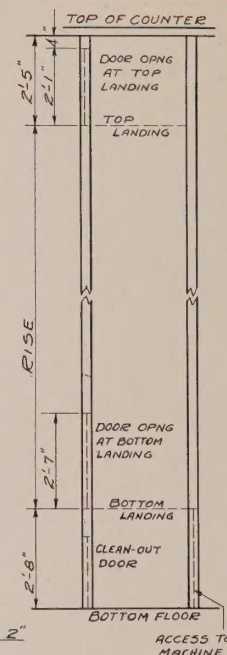
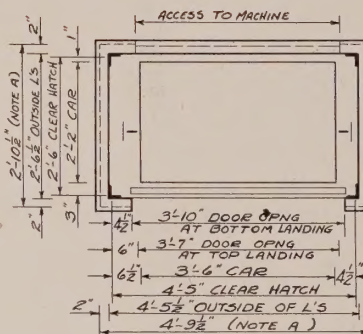
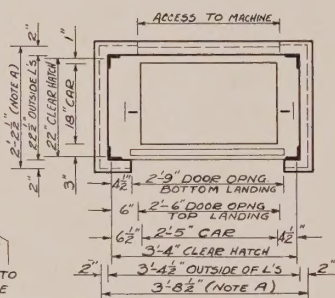
# OTIS UNDERCOUNTER DUMBWAITER

## STANDARD LAYOUTS



**SMALL CAR**  
R-2114 DW-B

**LARGE CAR**  
R-2114 DW-A



NOTE "A" - HATCH TO BE MADE TO THESE DIMENSIONS IF BUILT BEFORE STEEL TOWER IS ERECTED

## SPECIFICATIONS

**CAPACITY AND SPEED:** 300 pounds at 50 feet per minute.

**STANDARD CAR SIZES:**

**RISE AND STOPS:** Maximum rise 17'6". Maximum number of stops, two.

a. *Large Car:* 3'6" wide x 2'2" deep x 2'0" high. Standard car has no shelves. One or more removable shelves furnished, if required, as extra equipment. (Layout 2114-DW-A).

**CONTROL:** Automatic push button. *Call and Send:* Two buttons at each floor by means of which the car can be called from and sent to each floor.

b. *Small Car:* 2'5" wide x 1'6" deep x 2'3" high. This car available without shelves, or with one, two, three or four shelves, depending upon requirements. (Layout 2114-DW-B).

**POWER CHARACTERISTICS:** Alternating current, 60, 50 or 25 cycles, all standard voltages, single or multi-phase.

c. *Special Car Sizes:* Available where service requirements do not permit the use of standard size cars. Consult your local Otis office.

**MACHINE:** Drum type; with 1 1/2 H.P., 1800 R.P.M. Otis motor; worm-gear drive with steel worm and bronze gear; spring actuated, magnetically released brake; ball and roller bearings used throughout. The machine is bolted to the structural frame which supports the guide rails and the four tower uprights.

**GUIDE RAILS:** Standard 8-lb. steel elevator tees.

**CONTROLLER:** Insulated panel upon which are mounted automatic switches and protective devices to guard the motor against overload, stalling or phase reversal. The controller is totally enclosed in a sheet metal box with hinged cover, and may be mounted where desired.

**HOISTWAY CONSTRUCTION:** Steel tower consisting of four upright structural steel angles with angle cross-bracing at the middle and top. This tower completely supports the entire installation, eliminates the necessity of a machine foundation, furnishes a support for the erection of hoistway walls, and is so made that it can be taken down and moved to another location.

**CAR:** No. 14 U. S. gauge sheet steel enclosure, reinforced underneath with a 2" angle iron frame, and the entire car and frame welded to form a single rigid unit. Shelves, when desired, are made from No. 16 gauge sheet steel. Car floors and shelves slope slightly from front to back to hold goods in place.

**HOISTWAY DOORS:** Vertical bi-parting fireproof doors at the lower terminal and one-piece slide-down type fireproof doors at the top terminal. Electric contacts furnished at each floor to prevent operation of the car when door is open. Door locks furnished to meet local building code requirements.

**SIGNALS:** Operating fixture accommodates car operating buttons and mouthpiece for a 1 1/4" speaking tube. A call bell or buzzer also furnished when desired.

The nearest Otis office will gladly furnish layouts or specifications for any contemplated installation.

## OTIS ELEVATOR COMPANY

OFFICES IN ALL PRINCIPAL CITIES  
OR AT 260 ELEVENTH AVENUE, NEW YORK.